Docket No. 2023796-7036165001



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) Group Art Unit: Not-Yet- Assigned
Jon C. Taenzer	Examiner: Not-Yet- Assigned
Serial No.: 10/812,718)))
Filed: March 29, 2004	,))
For HEARING SYSTEM BEAMFORMER)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with 37 CFR § 1.97 and 1.98, and, the items identified in this Information Disclosure Statement ("IDS") are brought to the attention of the Office. The items are listed on the attached form PTO/SB/08A (08-00) are enclosed.

The items identified in this IDS may or may not be "material" pursuant to 37 CFR § 1.56. The submission thereof by Applicant is not to be construed as an admission that any such patent, publication or other information referred to therein is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as "prior art" under 35 USC § 102 with respect to this invention unless specifically designated by Applicant as such.

CERTIFICATE OF MAILING (37 C.F.R. §1.8)

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposit with the Unites States Postal Services on the date shown below with sufficient postage as "First Class Mail" to addressee in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of deposit

Jocelyn I. Lee

INFORMATION DISCLOSURE STATEMENT FILING PROVISION:

\boxtimes	This ID	S is believed to be timely in that it is being submitted under 37 CFR § 1.97(b), that is
(1) wit	hin three	e months of the filing date of the application, which is not a continued prosecution
		d under § 1.53(d) or (2) within three months of entry of the national stage as set forth in
		1; or (3) before the mailing of a first Office action on the merits; or (4) before the
_	-	st Office action after filing a request for continued examination under § 1.114. Thus, no
fee is r	equired.	
		However, if the undersigned is in error in this regard, Applicant respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and charge the fee due under 37 CFR §1.17(p) to the deposit account referenced below.
		However, if the undersigned is in error in this regard, Applicant respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and a statement under 37 CFR § 1.97(e) is included below, thus no fee is required.
		OS is being submitted under 37 CFR § 1.97(c), that is after mailing of a first Office nerits, but before a Final Action under 37 CFR § 1.113 or a Notice of Allowance under 1.
		The fee due under 37 CFR § 1.17(p) is submitted herewith.
		A statement under 37 CFR § 1.97(e) is included below, thus no fee is required. In the event that this IDS is not received before a Final Action or a Notice of Allowance, then Applicant respectfully requests that the Office consider the filing of these papers to be submitted under 37 CFR § 1.97(d) and charge the fee due under 37 CFR § 1.17(p) to the deposit account below.
-	or a No	OS is being submitted under 37 CFR § 1.97(d), that is after a Final Action under 37 CFR otice of Allowance under 37 CFR § 1.311, but before payment of the issue fee. A r 37 CFR § 1.97(e) is included below. The fee due under 37 CFR § 1.17(p) is submitted
		STATEMENT UNDER 37 CFR § 1.97(e):
	Each it	em contained in this IDS was first cited in any communication from a foreign patent
office i	n a cour	nterpart foreign application not more than three months prior to the filing of this IDS.
	No iten	n contained in this IDS was cited in a communication from a foreign patent office in a
		eign application, and, to the knowledge of the person signing this statement after
	-	able inquiry, no item of information contained in this IDS was known to any individual
		7 CFR § 1.56(c) more than three months prior to the filing of this IDS.
	111]	, the it or all many them there months but to the limit of this look.

	TATMENT AND/OR AUTHO	JKIZATIO	N TO CHARGE PEES.
	A check in the amount of is enclos	ed for the	above fee(s).
	Please charge to Deposit Account 1	No. 50-2 5	18 for the above fee(s).
\boxtimes	Although applicant believes no fee is requ	ired, the	Commissioner is authorized to charge any
	fees required by the filing of these papers	, and to ci	redit any overpayment to Bingham
	McCutchen's Deposit Account No. 50-25	18.	
			Respectfully submitted,
			BIGHAM McCUTCHEN LLP
Dated:	8/25/04	By:	MUN
	•		Michael J. Bolan
BINGE	HAM McCUTCHEN LLP		Reg. No. 42,339

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INFORMATION DISC STATEMENT BY APPL

(use as many sheets as necessary)

Sheet

Complete if Known		
Application Number	10/812,718	
Filing Date	March 29, 2004	
First Named Inventor	Jon C. Taenzer	
Group Art Unit	Not Yet Assigned	
Examiner Name	Not Yet Assigned	
Attorney Docket Number	2023796-7036165001	

				U.S. P	ATENT DOCUM	MENTS		
		U.S. Patent Document Kind Code ² Number (if known)		Name of Patentee or Applicant of Cited Document		Date of Publication of	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
Examiner Initials *	Cite No. ¹					Cited Document MM-DD-YYYY		
	1.	3,992,584			Dugan	11-16-1976		
	2.	4,956,867		Z	urek et al.	09-11-1990		
	3.	5,228,093			Agnelio	07-13-1993		
	4.	5,414,776			Sims, Jr.	05-09-1995		
					N PATENT DOC	UMENTS	1.5	
Examiner Initials*	Cite No.1	Foreign Patent Docume Office ³ Number ⁴ Kind (if k		ind Code ⁵ Name of Patentee or Applicant of Cited Document		Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₆
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Examiner Signature	Date Considered	

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark hee if English language Translation is attached.

PTO/SB/08B (10-01)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of

Complete if Known	
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Filing Date	March 29, 2004
First Named Inventor	Jon C. Taenzer
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	2023796-7036165001

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner	Cite	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal,	T ²
Initials*	No. ¹	serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	
	1	McKinney, E.D. et al., "A Two-microphone Adaptive Broadband Array for Hearing Aids", School of Electrical	
	2	Engineering, The University of Oklahoma, pp. 933-936. Greenberg, Julie E. et al, "Evaluation of an adaptive beamforming method for hearing aids", J. Acoust. Soc. Am. 91 (3), March 1992, pp. 1662-1676.	
	3	Stadler, R.W. et al., "On the potential of fixed arrays for hearing aids", J. Acoust. Soc. Am. 94 (3), Pt. 1, September 1993, pp. 1332-1342.	
	4	Zurek, Patrick M. et al., "Prospect and Limitations of Microphone-Array Hearing Aids", Research Laboratory of Electronics Massachusetts Institute of Technology, Bad Zwischenahn August 31 - September 5, 1995, pp. 233-244.	
	5	Desloge, Joseph G. et al., "Microphone-Array Hearing Aids with Binaural Output - Part I: Fixed-Processing Systems", IEEE Transactions on Speech and Audio Processing, Vol. 5, No. 6, November 1997, pp. 529-542.	
	6	Welker, Daniel P. et al., "Microphone-Array Hearing Aids with Binaural Output Part II: A Two-Microphone Adaptive System", IEEE Transactions on Speech and Audio Processing, Vol. 5, No. 6, November 1997, pp. 543-551.	
	7	Greenberg, Julie E. "Modified LMS Algorithms for Speech Processing with an Adaptive Noise Canceller", IEEE Transactions on Speech and Audio Processing, Vol. 6, No. 4, July 1998, pp. 338-351.	
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	1		1

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Date Considered

Examiner's

Signature

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